

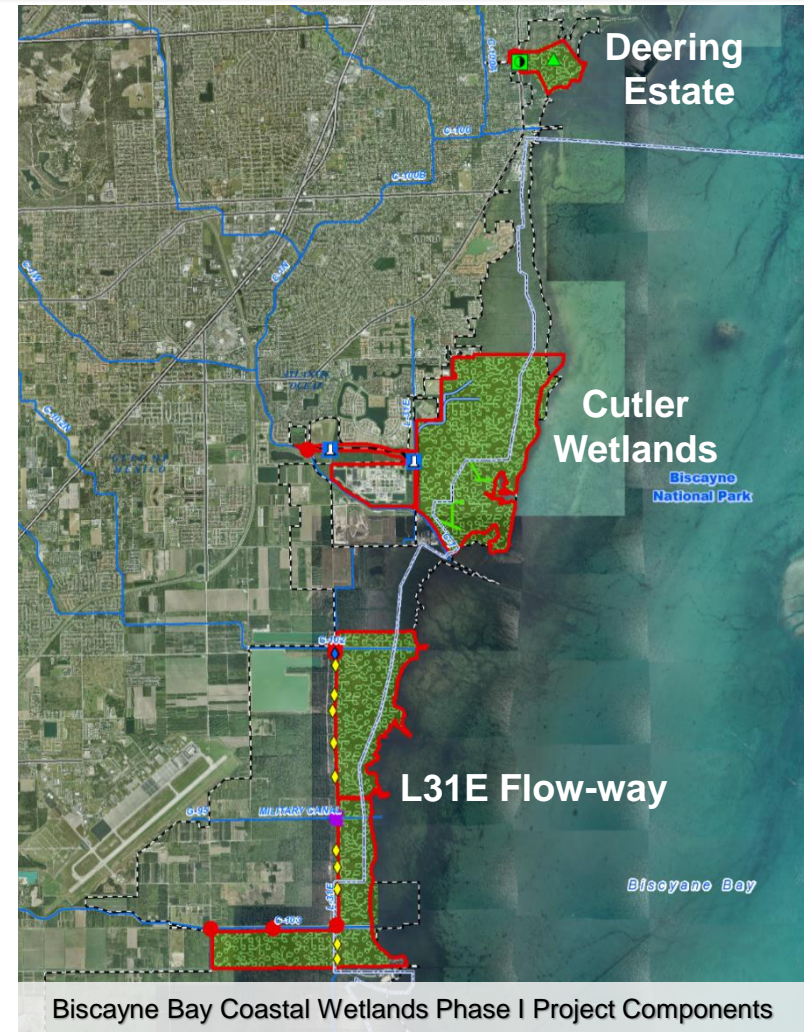


# **Biscayne Bay Coastal Wetlands SFWMD Project Update**

**Leslye Waugh  
Lead Project Manager  
October 17, 2018**

# BBCW Phase I Projects

- PIR EIS Completed in July 2011-Revised March 2012
- 3 Project Components
  - Deering Estate
  - Cutler Wetlands
  - L31E Flow-way
- Approved by Congress in WRRDA 2014 signed on June 10, 2014
- PPA executed August 25, 2016
- **PPA Amendment #1 executed March 9, 2018**
  - L-31E Flow way remaining culverts
- Agreements for Publicly Owned Lands
  - NPS September 15, 2016
  - FDEP September 22, 2016
  - **MDC June 19, 2018 (Deering & L31E)**
  - **MDC Agreement for Cutler Pending**





# L-31E Interim Operations



S-709 Interim Pump Discharge to L-31E Canal

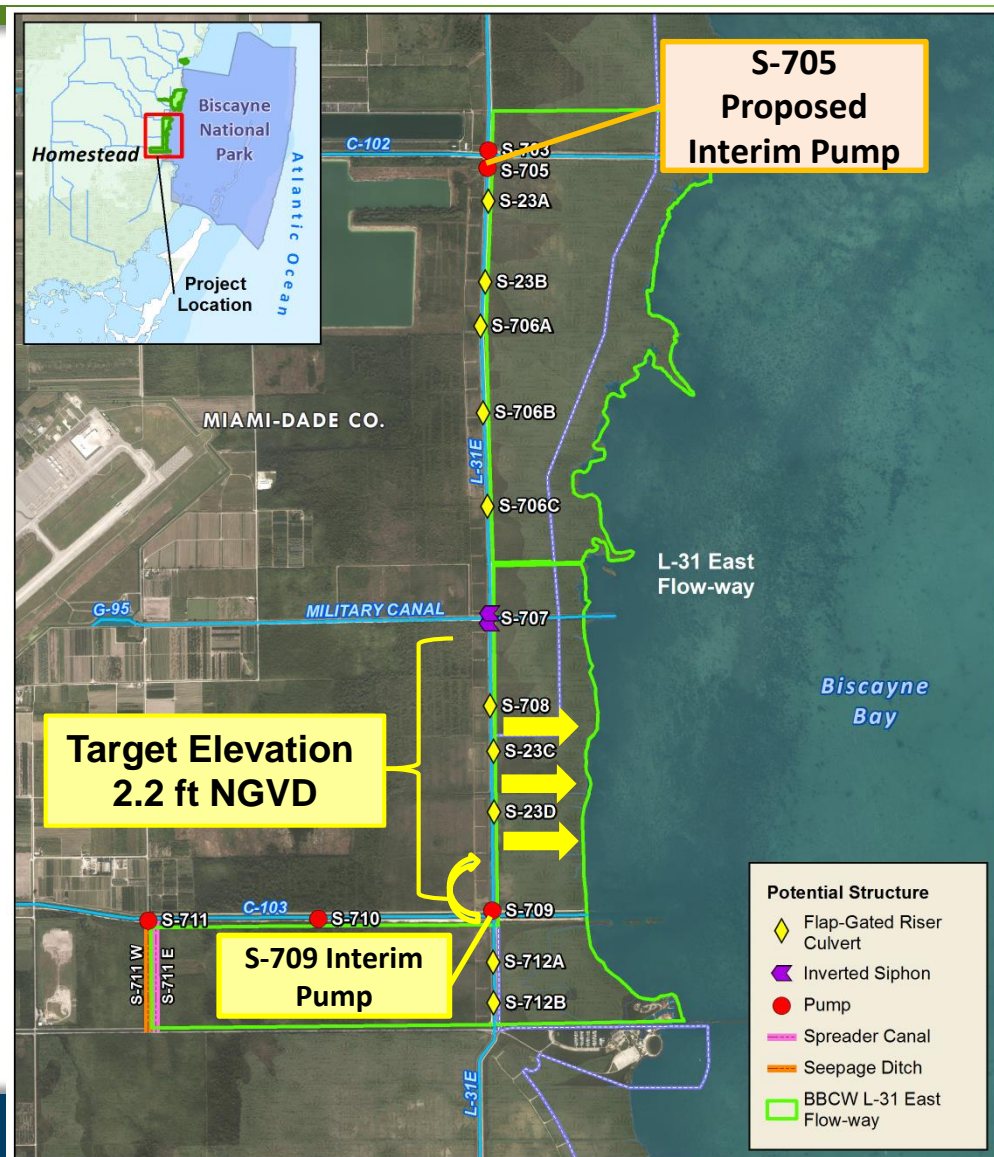


S-709 Interim Pump on C-103/L-31E Canals

## L-31E Interim Operations

- Initiated operations in August 2017
- Will allow for year-round operations during various conditions
- Continue benefits observed during the pilot test (2015/16 Dry Season)
- Interim operations to continue up to 5 years or until the permanent pump station S-709 is constructed by the USACE
- Interim pump at S-705 under development

# L-31E Interim Operations



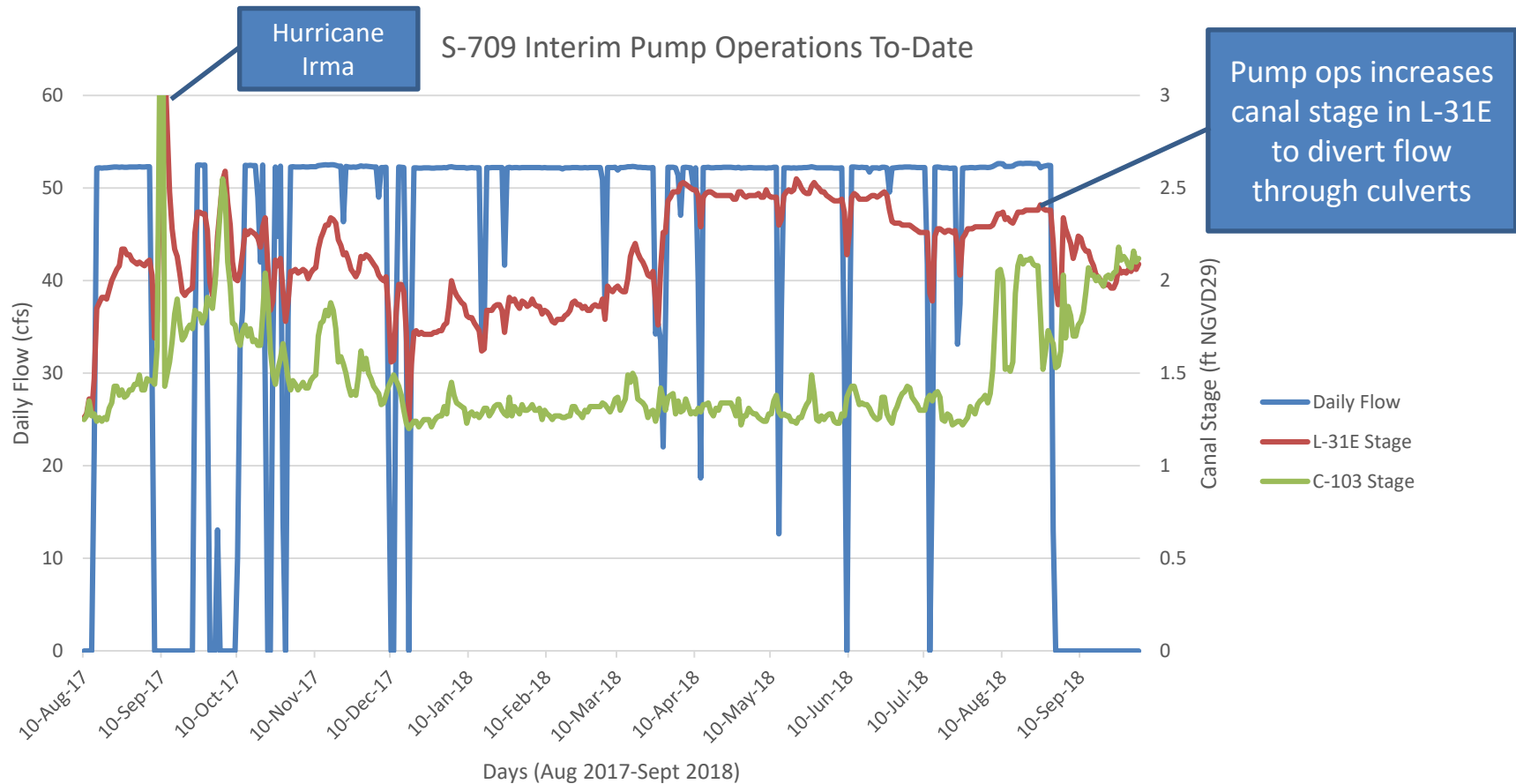
## S-709 Interim Pump

- Temporary 40 cfs pump
- Pumps available freshwater from the C-103 Canal into L-31E Canal between the C-103 and Military Canals
- Target canal elevation of 2.2 ft NGVD
- Increases flow through culverts

## S-705 Proposed Pump

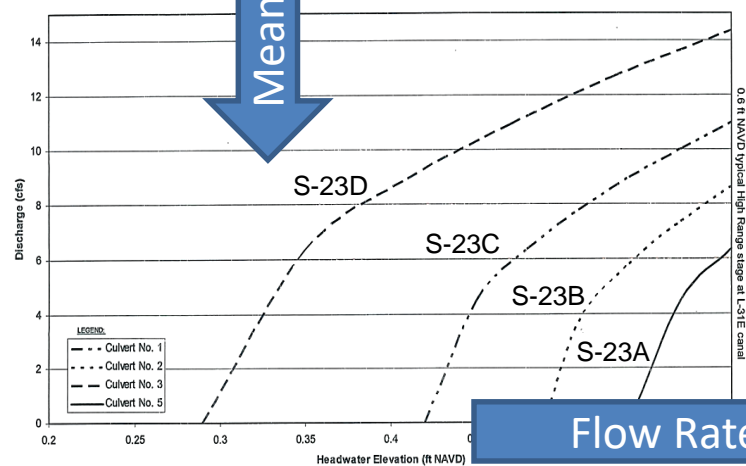
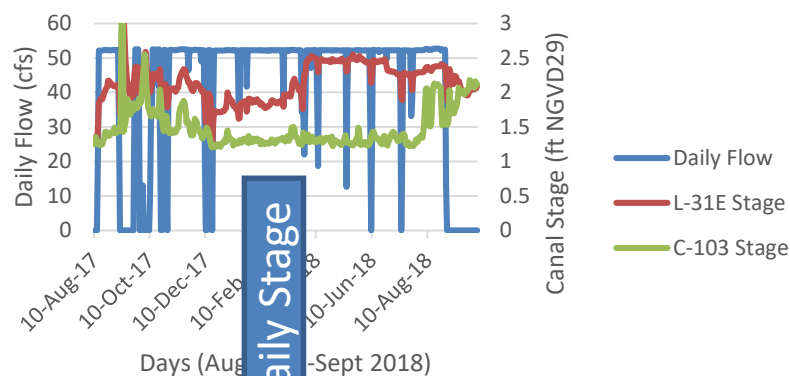
- Under development
- 3-phase power required

# L-31E Interim Operations



# L-31E Interim Operations

S-709 Interim Pump Operations To-Date



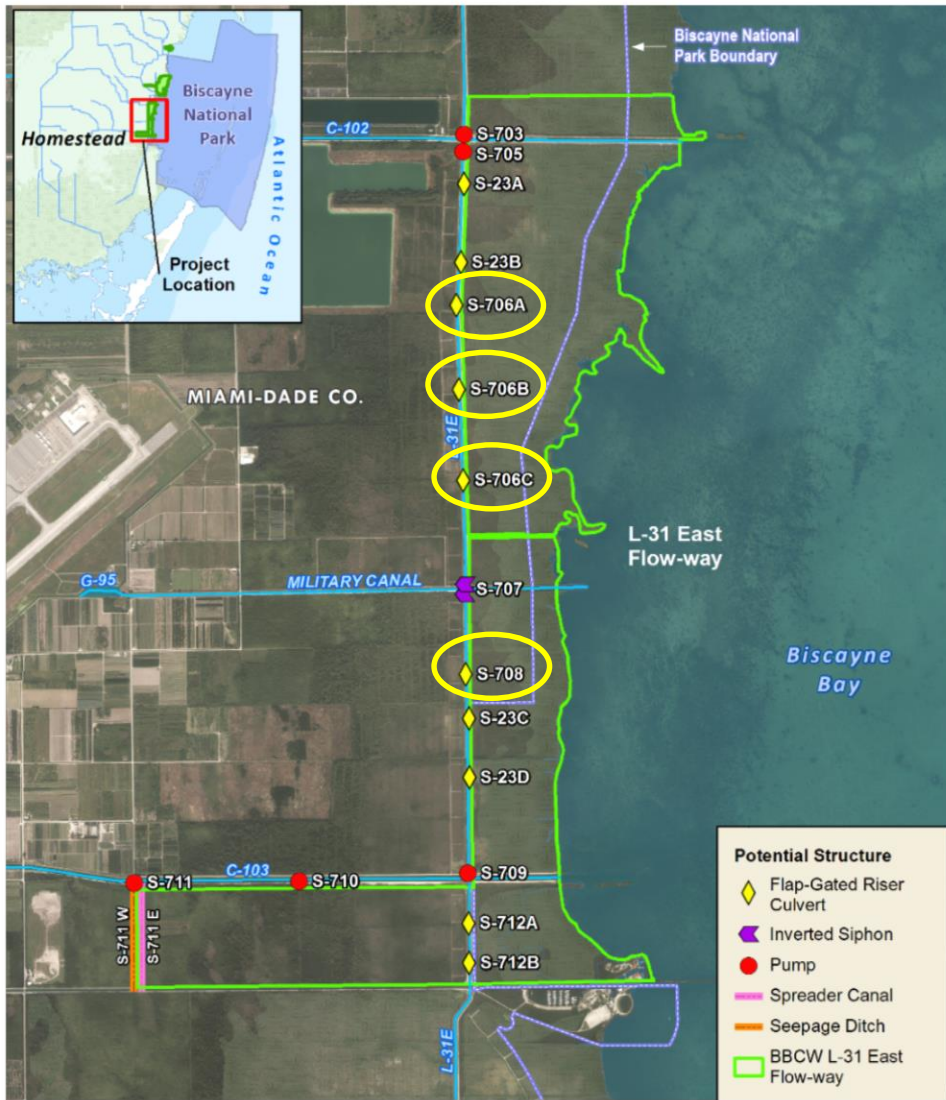
L-31E Culvert Rating Curve

Freshwater Diverted by S-709 Interim Operations

Month	S-23C (ac-ft)	S-23D (ac-ft)	S-709 (ac-ft)
Aug 2017	211	372	1,783
Sept 2017	453	707	1,105
Oct 2017	519	756	1,509
Nov 2017	565	785	3,066
Dec 2017	151	254	2,698
Jan 2018	11	207	3,083
Feb 2018	0	146	2,864
Mar 2018	319	629	2,942
April 2018	659	858	2,862
May 2018	681	875	3,064
June 2018	659	947	2,876
July 2018	673	870	2,921
Aug 2018	664	895	3,007
<b>Totals</b>	<b>5,565</b>	<b>8,301</b>	<b>33,780</b>



# L-31E Culvert Construction



# Deering Estate Operations

## S-700 Pump Station Operations

### ■ Project Concern

- Operations mostly pulsed
- During FPL off-peak hours
- Inconsistent hydroperiod
- Constrained operational range

### ■ Revised Operations

- Pump test in May 2018 to extent operational range when S-123 is in low range
- Remove power consumption constraint
- Revised operations manual to provide for continuous pumping of at least 25 cfs
- Initiated in September 2018 after DEP concurrence



Deering Estate S-700 Pump Station & Education Wetlands

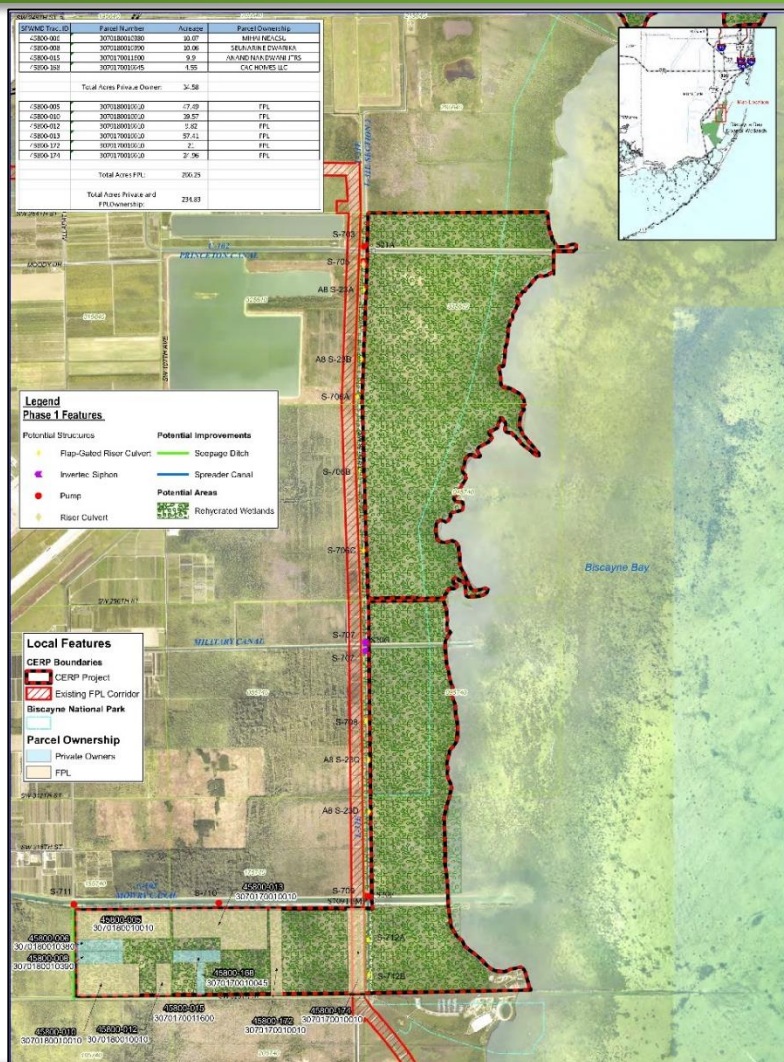




- Design update scheduled for 2019
- Statement of Work is under development
- Re-evaluating the north end of spreader canal
- Construction scheduled for 2020 to 2021 on the IDS



# Phase I Real Estate Acquisition



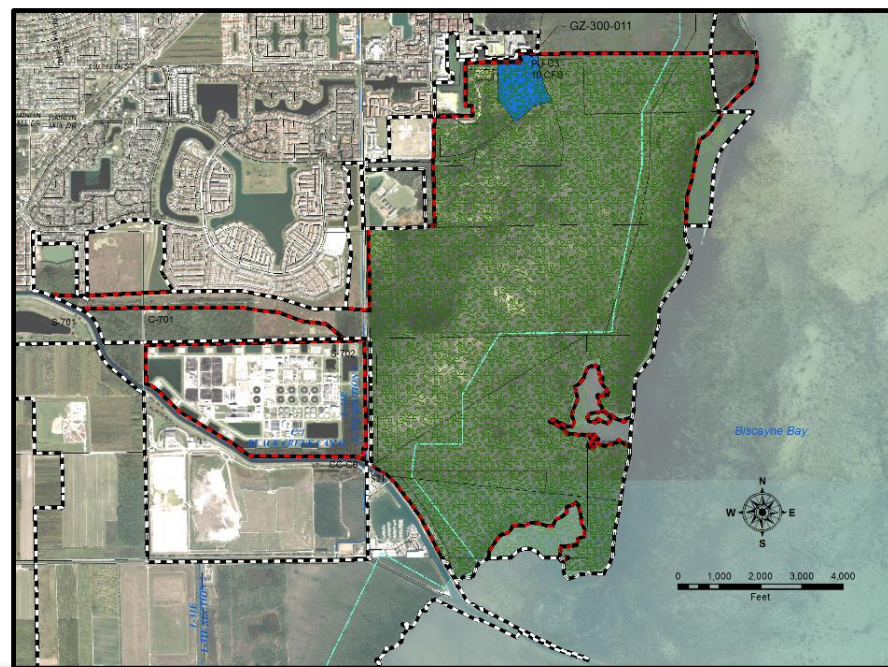
## Remaining Acres to be Acquired

Private approximately 67 acres

FPL approximately 200 acres

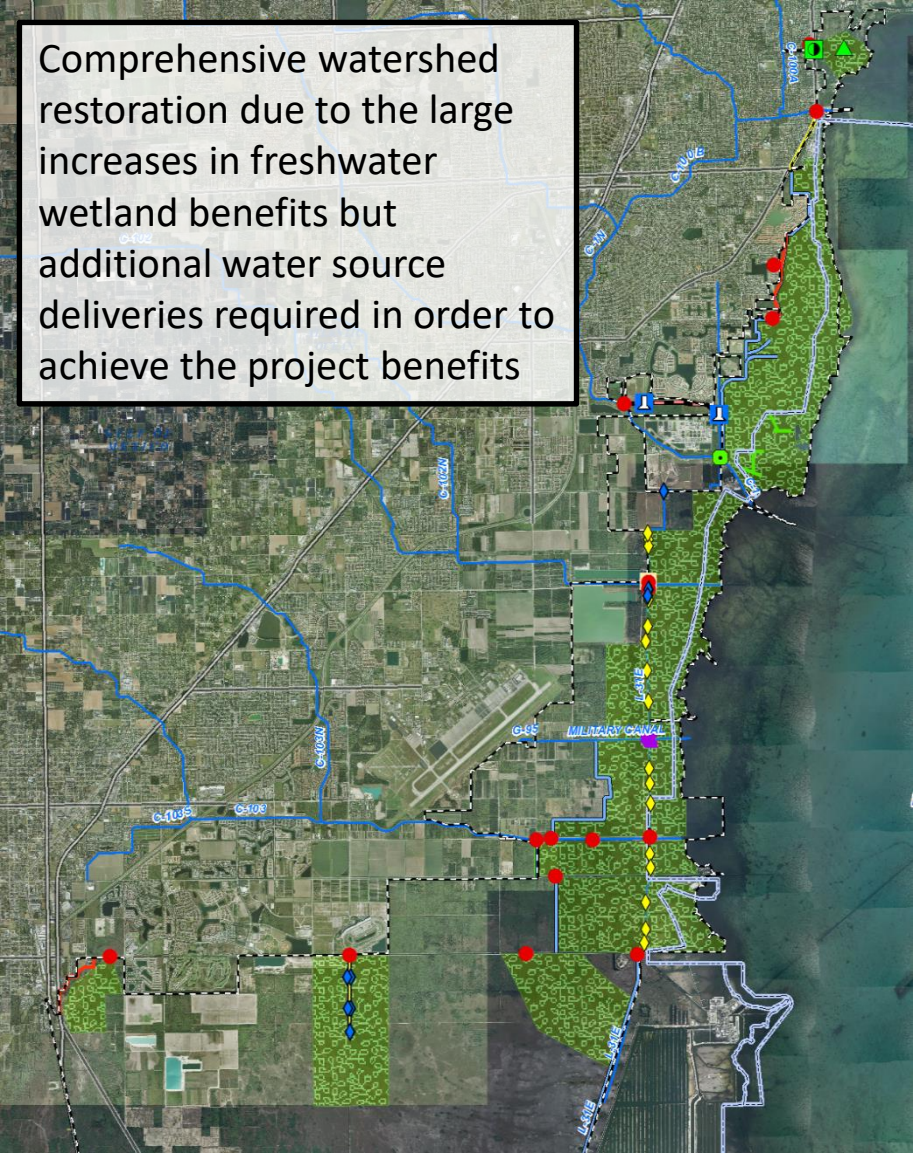
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Total approximately 267 acres





# Biscayne Bay Coastal Wetlands - Alternative O Phase II\*



Comprehensive watershed restoration due to the large increases in freshwater wetland benefits but additional water source deliveries required in order to achieve the project benefits

## Phase II Planning

- Integrated Delivery Schedule has BBCW Phase II planned for 2022 – 2024
- Estimated real estate acquisition approximately 4,501 acres
- Estimated PIR project cost approximately \$350 million\*
- Additional water source required to achieve project benefits
- During development of the Combined Operating Plan (COP) opportunities for sending water to Biscayne Bay will be investigated

\*Does not include the cost of providing additional water source deliveries to realize the full utility of the Phase II components



# Questions?

